

**CLAIMS**

1. Filter module comprising:

- a housing with a first open end and a second open end;

5 - membrane holders which are arranged in the housing for the purpose of containing membranes which extend substantially between the first open end and the second open end, wherein the membrane holders are arranged on the inner wall of the housing.

10 2. Filter module as claimed in claim 1, wherein the membrane holders comprise a number of elongate sides which are mutually connected via the longitudinal sides.

15 3. Filter module as claimed in claim 2, wherein at least two longitudinal sides of a membrane holder can be disconnected from each other in order to bend open the membrane holder.

4. Filter module as claimed in claim 2 or 3, wherein at least one of the elongate sides comprises a channel extending in lengthwise direction.

20 5. Filter module as claimed in any of the claims 2-4, wherein the elongate sides are at least partially perforated.

6. Filter module as claimed in any of the claims 2-5, wherein spacers are arranged on the elongate sides to ensure a predetermined distance between membrane holders.

25 7. Filter module as claimed in any of the foregoing claims, wherein the membrane holders are arranged on the inner wall of the housing by means of coupling means.

8. Filter module as claimed in claim 7, wherein the

coupling means comprise at least one rib extending in lengthwise direction and the membrane holders comprise at least one groove extending in lengthwise direction.

9. Filter module as claimed in claim 7, wherein the coupling means comprise at least two ribs extending in lengthwise direction, and at least one membrane holder is provided on either side with grooves extending in lengthwise direction, wherein the distance between the grooves is substantially equal to the distance between the ribs.

10. Filter module comprising:

- a housing with a first open end and a second open end;

- membrane holders which are arranged in the housing for the purpose of containing membranes which extend substantially between the first open end and the second open end, wherein the membrane holders lie against each other and against the inner wall.

11. Method for assembling a filter module as claimed in any of the foregoing claims, which method comprises the steps of:

- providing an assembling device which comprises a number of elongate basic elements hingedly connected to each other in longitudinal direction;

- providing membrane holders;

- filling the membrane holders with membranes;

- arranging the filled membrane holders slidably on the basic elements;

- folding together the arranged membrane holders;

and

- sliding the filled membrane holders from the basic elements into the filter housing.